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84-xvi-83

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Daily and Weekly World, BURNETT & BURKE, Prop's.

DEMOCRATIC, CONSERVATIVE Newspaper: the bestadertising medium the State. An extensive circulation ough all the rich cottou-growing counties.

te only Daily Paper that Pub-lishes Preus Reports Gutside of Little Rock.

That portion of the State of which I elena is ne capital, the eastern part, surpasses a Uthe thers in point of progress. Business med of camphis, have a care; look to the trade of

Memphis, have a care; look to the trade of Beleins.

Refers to Johnston & Vance, H. Wade & Co., E. A. Benson, Hill, Terry & Mitchell. 6-1

MEDICAL.

MEDICAL

HAIR DYE. Batchelor's Hair Dye.

This plendid Hair Dye is the best in the world. The only true and parfect dye. Harmless, reliable and instantaneous; no disappointment, no ridicultus tints or unpleasant odor. Hemedies the ill effects of had dyes and washes. Produces in medicate a superb misch on any manufactural vasues the hair chark, nor and leaves the hair chark, nor and leaves the hair chark, nor and leaves the hair chark, nor CHAS. BATCHELOR, 61-end-xvi-60

CHAS. BATCHELOR, 61-end-xvi-60

LARGEST CITY CIRCULATION.

MEMPHIS, TENN.; FRIDAY EVENING, MAY 2, 1873.

Fifteen Cents Per Week Louisville, Kentucky

PAPER. Paper! Paper! Paper!

A. V. DU PONT & CO.

Have just removed to their new, la four-story warehouse, No. 18t Main st.

VOL. XVI. and lowering its head and breast, a rod of thirty centimetres long, weighing four hundred grammes; its own weight was but two grammes. At the side of this insect, what are the acrobats who can carry a table between their teeth! Such examples show to what an extent insects are superior to the larger animals in the

are superior to the larger animals in the strength of their muscles. Dry and

nervous, they can, in proportion to them-selves, move mountains. In addition to

which were at liberty; thus it soon

THE JUMPING INSECTS

AMONG THE INSECTS THAT DIG

or burrow in the ground, a different plan was tried to see their power of pushing

PUBLIC LEDGER.

City Official Journal.

THE PUBLIC LEDGER IS PUBLISHED a very afternoon (except Sunday) at No. 13 Madison street.

The Public Lengua is served to city subscribers by faithful carriers at FIFTEEN CENTS PER WEEK, payable weekly to the carriers. By mail (in advance): One year, \$5; six months, \$4; three months, \$2; one month, 75 cents.

Newedealure supplied at 2½ cents per copy.

Weekly Public Ledger,

Published every Tuesday at \$2 per annum (in advance); clubs of five or more, \$1 50.

RATES OF ADVERTISING IN DAILY: gain its end. Six times successively, weary of the war, and despairing of suc-cess, it ahandoned its prey, and sadly placed itself at some distance. At last a bright idea saved it from its embarrass-First Insertion \$1 00 per square labsequent insertions 50 ""
for one week 50 ""
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for one month 7 50 "" ment; it turned, placed itself across the RATES OF ADVERTISING IN WEEKLY: caterpillar, as if on horseback; with its its victim, raised it against its breast's and managed to walk on the four feet Eight lines of nonpareil, solid, constitute a

its prey against a wall.
Investigations have been made re ents per line for each insertion.
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cents per line.
All bids for advertising are due when con-tracted and payable on demand. All letters, whether upon pusiness or other-rise, must be addressed to K. WHITMORE.

Publisher and Proprietor.

Musseniar Strength of Insects. from Chambers' Journal.] It is an interesting study to compare the motive power of birds and insects, and recent experiments prove that they are superior in this respect to quadrupeds, especially when the possibility of own weight; the smaller ones, three or terial navigation is taken into account. four times their weight. The grasshop-\$12 constitutes you a member, see and at annually. No other exposses except the death of a member, see you will be assessed the death of a member, see you will be assessed to see an annually. No other exposses except the death of a member, see you will be assessed to see an annually. In a few minutes the condor will soar many miles in hight; the awallow is not weary of describing its rapid and graceful curves for fifteen hours at a time. It has been calculated that the eagle, with its rapid flight, produces an effort sufficient to raise and bear up its own weight equal to twenty-six horse power.

Insect organization is as full of wonders as that of the bird. The energy which lives in these curious little creatures may well excite the wonder of an observer. "If you compare their loads with the size of their bodies," says Pliny, in speaking of the annually and it was a foreseen by the celebrated naturalist, Stranss-burght in the size of their bodies, "says Pliny, in speaking of the annually weight; the smaller once, three four times their weight. The grasshop-par differs from the cricket in having longer and thinner legs; the green variety, weighing about two and a half grammes, can only raise a weight equal to its own, confirming the law that the mescular force of insects increases as their weight. The grasshop-par differs from the cricket in having longer and thinner legs; the green variety, weighing about two and a half grammes, can only raise a weight equal to its own, confirming the law that the mescular force of insects increases as their weight in the condor will soar times their weight. The grasshop-par differs from the cricket in having longer and thinner legs; the green variety, weighing about two and a half grammes, can only raise a weight equal to its own, confirming the law that the its own weight equal to twenty-six horse power.

Insect organization is taken into a committee the season of the early weight the weight from the cricket in laving four times their weight lines. It is to so wn the suffici proportion." Sir Walter Scott suggests the same idea. When a beetle is placed under a candle, it will move it in its efforts to escape, which is relatively the same thing as a prisoner in Newgate shaking the building with his back. Linnaus remarks that an elephant having the force of a horn beetle would be able to move a mountain.

Af. Felix Plateau, a young Belgian naturalist, and a son of the celebrated physician, has lately tried some very delicate experiments to measure the

delicate experiments to measure the are composed; from whence it follows muscular strength of insects, as others that it ought to be in proportion to the have done with man and the horse. The surface of the section of these organs, strength of the last two is estimated by whilst the weight of the animal is protected and of a machine called a dynamo-portional to their volume. The weight the aid of a machine called a dynamometer, where the tension of a spring is counterbalanced by an effort exercised for a very short time. A man, it is found, has a power of traction equal to five-sixths of his weight; a horse, only the half or two-thirds of his weight; but this is very small in comparison with the sixth of the same and the relation between this weight and this force becomes the more influenced by an effort exercised to the relation between this weight and this force becomes the more influenced by an effort exercised to their volume. The weight of the animal is proportional to their volume. The weight of augments more rapidly than the motivepower, and the relation between this weight and this force becomes the more influenced by an effort exercised to the relation between this weight and this force becomes the more of the animal is proportional to their volume. The weight augments more rapidly than the motivepower, and the relation between this weight and this force becomes the more
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of the animal is propower, and the relation between this animal is propower, and the relation between this animal is propower, and the relation between this animal is propower. this is very small in comparison with the strength of insects, many of which can draw forty times that amount.

The way in which M. Plateau has tried to see their power of pushing the way in which M. Plateau has forward. They were placed in a card board tube, which had been blackened board tube, which had been blackened measured these powers is ingenious. He harnessed the insect by a horizontal thread, which was passed over a light, movable pulley; to this was attached a balance, loaded with a few grains of sand. To prevent the insect turning aside he made it walk between two bars of glass, on a board covered with mustin, so as to afford a rough surface. Exciting it forward, he gradually poured fresh sand into the balance until it refused to advance farther; the sand and with all its strength; the plate gives way,
the lever turns and raises at its other
extremity the balance, which is attached
by a pulley, and into which the sand is
poured as before. In this way the
oryctas, weighing about forty-six grains,
pushed three or feur times its own
weight, whilst the little onthopagus
moved from eighty to ninety times that phils, have a care; look to the trade of the insect were then weighed, and the insect was repeated three times, in Benson, Hill, Terry & Mitchell. 5-1

it can raise a weight very little inferior to its own, whilst the drone can only transport in this manner half its own weight. The law in question appears that to apply not to the species which belong to the same entomological subdivision, but, in a certain measure, to

division, but, in a certain measure, to the entire class of insects. It is true paring them with animals, the mole and that if the species are mind the rabbit countries. me ridicultus tiuts of unpleasant odor. Remedicate the ill effect of had dyes ancecon Natural Bandy, and leaves the Ball caux, and the entire class of insects. It is true that if the species examined are a partial than the species examined are and the proposed of the first proposed of the prop

RACES!

-THE+

Fourth Annual Spring Meeting

-OF THE-

selves, move mountains. In addition to this, they are ingenious; when an object does not yield to them, they know how to turn it aside. One day, in a garden, a small wasp was trying to raise a cater-pillar, which it had killed. The cater-pillar was at least five or six times heav-ier than its conqueror, which could not gain the end. Six times ancessaively Will commence on

TUESDAY, APRIL 29,

And continue five days, with the following PROGRAMME:

Hurdle race, for a Club Purse of \$400, of which \$100 to the second; two inflee, over cight hardles, 3 feet 6 inches high. Three year olds to carry 110 lbs: 4 year-olds, 124 lbs; 5 year-olds and upward, 130 lbs. Four to start. SAME DAY—The Trial Stakes, mile heats, for 5 year-olds; a sweepstakes of \$50 each, p. p., to which the Club will add \$400. Five subscribers crossed a walk of six feet wide, and laid

THIRD RACE-Jockey Club Purse \$250, mile And A half; free for all.

Second Day, Wednesday, April 30

Jocker Club Purse \$300, dash of two miles; for all ages.

SAME BAY—Jockey Club Purse \$500, mile crickets and grasshoppers can raise when jumping. To prevent them using

SAME DAY—Jockey Club Purse \$70, mile heats; free for all.

The Miner Staka, mile heats, for 3 year old colts and filler that had not appeared in public prior to the alesing of this stake; a sweepstakes of \$10 each, p.p., to which the Club will add \$300. Flevex subscribers.

SAME DAY—The Robbins Stake, a sweepstakes of \$100 each, hf. ft., to which the Club will add \$500; second to save his stake; heats at two miles; free for all. Seven subscribers.

Pourth Day, Fristay, Nay 2

Jockey Club Purse \$20, mile and a quarter, for all sges.

SAME DAY—Jockey Club Purse \$60, mile heats, best 3 in 5; free for all age.

Fifth Day, maturstay, May 3

Grand Steeple Chase. Conditions to be announced on Wednesday, the second day of the meeting. their wings, M. Platean tied them and the elytra or outer sheaths with a thread. The burden was a ball of wax ballasted with morsels of lead, which was hung to a thread tied around the thorax; as much lead was added to the wax until

the insect could only raise itself an inch-from the ground. The ball and the in-sect were afterward weighed, the latter having been made insensible by the fumes of ether. Crickets of the larger kind raised about one and a haif their

the meeting.

AME DAY—Chickasaw Stake, two miles:
for 3 year olds; a sweepstakes of \$50 each,
p.u. to which the Club will add \$400. Seven subscribers.
THIRD RACE-Handleap for beaten horse mile heats. Horses beaten once, allowed 7 lbs; twice, 14 lbs; three times, 21 lbs. Entrance, 50; money to go to second horse. For a purse of \$200.

The Club reserves the right to postpone on account of weather, or for other sufficient cause. In case a postponoment is abnounced, the entries for purses are off.

28 No entrance fee to purses. A walk-over entitles a horse to full amount of purse.

Prices of admission as usual, Extra accommodations for tedies, who are specially in vited. JOHN DONOVAN, President. C. STONE, Secretary protom. 20-eed-5 DRESS MAKING

ms Bridal Tronsseaus a specialty. Drosse cut, fitted and made up in the latest atgles. 36-62

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THE GREAT SOUTHERN I remedy for the sure of serofula, Serviplous Tout, Rheumatism, White Scolling, Gout, tooker, Cansump ion, itsenehitis, Nervous Debility and all diseases arising from an impure condition of the Blood.

The morits of this preparation are so well known that a passing notice is but necessary to remind the readers of the necessity of always having a bottle of this medicine among their stock of family necessities.

Certificates can be presented from many leading Physicians, Ministers, and heads of families throughout the South, indersing in the highest terms The Fluid Estract of Hassadia.

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Dr. T. C. Pugsh of Baltimere Dr. T. C. Pugsh of Baltimere

more says he has used of Serofula and other diseases of Serofula and other diseases with much satisfaction.

Dr. T. C. Pugh of Baltimers recommends it to all persons suffering with diseased Blood, saying it is superior to any proparation, he has ever used.

Rev. Dahney Ball of the Baltimore M. E. Conference South says he has been so smell benefitted by its use that he cheerfully resourcements it its all cheerfully resourcements. cerfully resonata thus is friends and acquaintances. Graven & Ge . Druggists, at order, while, ye., say it never actions at the satisfaction.

Samuel G McFadden, Mur-sanuel G McFadden, Mur-sanuel G McFadden, Mur-tennessee, says it freezooro, Tennessor, hays it cured him of Kheumatism when all else failed.

Rossdalie is not a secret ansack proparations its ingredients are published on every package. Show it to your Physician and he will tell you it is composed of the strongest alcomposed of the strongest al-teratives that exist, and is an excellent Bicou Purifier. Did our space admit we could give you testimonials from every State in the South, and frem persons known to exery man, soman and child, either per-sonality or by rapulation. Rosadalis is told by all Drug-

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